(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 6 October 2005 (06.10.2005)

(10) International Publication Number WO 2005/093419 A1

(51) International Patent Classification7:

G01N 33/543

(21) International Application Number:

PCT/CN2005/000387

(22) International Filing Date: 28 March 2005 (28.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

200410029590.7

26 March 2004 (26.03.2004) CN

(71) Applicants (for all designated States except US): CAP-ITALBIO CORPORATION [CN/CN]; 18 Life Science Parkway, Changping District, Beijing 102206 (CN). TS-INGHUA UNIVERSITY [CN/CN]; Tsinghua University, Haidian District, Beijing 100084 (CN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SUN, Yimin [CN/CN]; 18 Life Science Parkway, Changping District, Beijing 102206 (CN). XING, Wanli [CN/CN]; 18 Life Science Parkway, Changping District, Beijing 102206 (CN). WANG, Guoqing [CN/CN]; 18 Life Science Parkway, Changping District, Beijing 102206 (CN). DU, Hongwu [CN/CN]; 18 Life Science Parkway, Changping District, Beijing 102206 (CN). ZHANG, Rong [CN/CN]; 18 Life Science Parkway, Changping District, Beijing 102206 (CN). CHEN, Yuan [CN/CN]; 18 Life Science Parkway, Changping District, Beijing 102206 (CN). WANG, Yan [CN/CN]; 18 Life Science Parkway, Changping District,

Beijing 102206 (CN). CHENG, Jing [CN/CN]; 18 Life Science Parkway, Changping District, Beijing 102206

- (74) Agent: JEEKAI & PARTNERS; Suite 602, Jinyu Tower, A129 West Xuan Wu Men Street, XiCheng District, Beijing 100031 (CN).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM. AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD. MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ. TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO. SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND BIOCHIPS FOR DETECTING SMALL MOLECULE COMPOUNDS

(57) Abstract: The present invention discloses methods for detection of small molecule compounds and its specific biochips. Biochips of the present invention comprise a solid support and carrier-linked small molecules immobilized onto the solid support. The invention also provides methods and kits for detection of small molecule compounds using the biochips of the invention.